## IN THE CLAIMS:

## 1-3. (Canceled)

4. (Currently Amended) A pellicle comprising a pellicle film made of a fluorine-containing polymer and a pellicle frame for supporting the pellicle film, wherein

the pellicle film is adhered to the pellicle frame through an adhesive layer comprising a fluorine-containing polymer and a substance resulting from curing of an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is comprises at least one kind of a monomer selected from the group consisting of represented by general formula formulas (1), (2), and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f$$
 ...(1)

$$C H_{2} = C - C O_{2} - (C R^{2}H)_{m} - R f - (C R^{3}H)_{n} - C O_{2} - C = C H_{2}$$

$$| \qquad \qquad | \qquad \qquad |$$

$$C H_{2} = C - C O_{2} - (C R^{2} H)_{m} - C H - (C R^{3} H)_{n} - R f \qquad (3)$$

$$I$$

$$R^{1} \qquad O_{2} C - C R^{4} = C H_{2}$$

wherein R<sup>1</sup> and R<sup>4</sup>-each independently representing represents hydrogen or a methyl group, R<sup>2</sup> and R<sup>3</sup>-each independently representing represents hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and l, m and n each are is an integer of 1 to 8,

and the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

- $-C_2F_4$  (4)
- $-C_3H_6-$  (5)
- $-C_2H_2F_2-$  (6).
- 5. (Currently Amended) A method for producing a pellicle including a pellicle film made of a fluorine-containing polymer and a pellicle frame for supporting the pellicle film, comprising

adhering the pellicle film to the pellicle frame through an adhesive comprising a fluorine-containing polymer and an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is comprises at least one kind of a monomer selected from the group consisting of represented by general formula formulas (1), (2), and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f$$
 ...(1)

$$C H_2 = C - C O_2 - (C R^2 H)_m - R f - (C R^1 H)_n - C O_2 - C = C H_2$$

$$I$$

$$R^1$$

$$R^4 \cdots (2)$$

$$C H_{2} = C - C O_{2} - (C R^{2}H)_{m} - C H - (C R^{3}H)_{n} - R f - \cdots (3)$$

$$| \qquad \qquad | \qquad \qquad |$$

$$R^{1} \qquad \qquad O_{2}C - C R^{4} = C H_{2}$$

wherein R<sup>1</sup> and R<sup>4</sup> each independently representing represents hydrogen or a methyl

group, R<sup>2</sup> and R<sup>3</sup>-each independently representing represents hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and l, m and n each are is an integer of 1 to 8, and the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

- $-C_2F_4$  (4)
- $-C_3H_6$  (5)
- $-C_2H_2F_2-$  (6).
  - 6. (Canceled)
- 7. (Previously Presented) The pellicle as recited in claim 4, wherein the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a-(C_3H_6)_b-(C_2H_2F_2)_c-$$
 (7)

wherein each of a, b and c is a positive integer.

8. (Previously Presented) The method as recited in claim 5, wherein the fluorine-containing polymer of said adhesive is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a-(C_3H_6)_b-(C_2H_2F_2)_c-$$
 (7)

wherein each of a, b and c is a positive integer.

9. (Canceled)

10. (Currently Amended) The pellicle as recited in claim 4, wherein the ratio between the fluorine-containing polymer of said adhesive and the ultraviolet-curing fluorine-containing monomer contained in the adhesive layer is fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 0.5 17:4.3 to 8.5 (weight ratio) in the case of monoacrylate fluorine-containing monomer represented by general formula (2) (1); and fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 3 (weight ratio) in the case of diacrylate fluorine-containing monomer represented by general formula (3) or (4).

11. (Currently Amended) The method as recited in claim 5, wherein the ratio between the fluorine-containing polymer of said adhesive and the ultraviolet-curing fluorine-containing monomer contained in the adhesive layer is fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 0.5 17:4.3 to 8.5 (weight ratio) in the case of monoacrylate fluorine-containing monomer represented by general formula (2) (1); and fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 3 (weight ratio) in the case of diacrylate fluorine-containing monomer represented by general formula (3) or (4).

## 12. (Canceled)

13. (Previously Presented) The pellicle as recited in claim 4, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$0 H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_1 C F_3$$

$$I$$

$$C H_3$$

$$C F_{2}$$

$$C H_{2} = C - C O_{2} - C H$$

$$C H_{3}$$

$$C F_{3}$$

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_3 C F_2 H$$

$$C H_3$$

$$CH_2$$
= $CH$ - $CO_2$ - $CH_2$ - $CH_2$ - $(CF_2)_9$  $CF_3$ 

$$C F_3$$

$$C H_2 = C H - C O_2 - C H_2 - C H_2 (C F_2)_1 C F$$

$$C F_3$$

CH<sub>2</sub>=CH-CO<sub>2</sub>-CH<sub>2</sub>(CF<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>OH

$$C H_2 = C H - C O_2 - C H_2 - C F - O (C F_2)_4 C F_3$$

$$C F_3$$

CH<sub>2</sub>=CH-CO<sub>2</sub>-(CH<sub>2</sub>)<sub>6</sub>-(CF<sub>2</sub>)<sub>5</sub>CF<sub>3</sub>

$$C H_2 = C H - C O_2 - C H_2 - C F - O - C F_2 - C F - O - (C F_2)_4 C F_3$$

$$C F_3 \qquad C F_3$$

CH<sub>2</sub>=CH-CO<sub>2</sub>-CH<sub>2</sub>-(CF<sub>2</sub>)<sub>5</sub>CF<sub>2</sub>H

CH<sub>2</sub>=CH-CO<sub>2</sub>-(CH<sub>2</sub>)<sub>6</sub>(CF<sub>2</sub>)<sub>3</sub>CF<sub>3</sub> and

$$OH CF_{2}$$

$$CH_{2} = CH - CO_{2} - CH_{2} - CH - CH_{2}(CF_{2})_{3}CF$$

$$CF_{3}$$

14. (Previously Presented) The method as recited in claim 5, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$| O H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_3 C F_3$$

$$C H_3$$

$$C F_{2}$$

$$C H_{2} = C - C O_{2} - C H$$

$$C H_{3}$$

$$C F_{3}$$

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_1 C F_2 H$$

$$C H_3$$

$$CH_2$$
= $CH$ - $CO_2$ - $CH_2$ - $CH_2$ - $(CF_2)_9$  $CF_3$ 

$$C F_{3}$$
 $C H_{2} = C H - C O_{2} - C H_{2} - C H_{2} (C F_{2})_{4} C F$ 
 $C F_{3}$ 

CH<sub>2</sub>=CH-CO<sub>2</sub>-CH<sub>2</sub>(CF<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>OH

$$C H_{2} = C H - C O_{2} - C H_{2} - C F - O (C F_{2})_{4} C F_{3}$$

$$| C F_{3}$$

 $CH_2=CH-CO_2-(CH_2)_6-(CF_2)_5CF_3$ 

$$C H_2 = C H - C O_2 - C H_2 - C F - O - C F_2 - C F - O - (C F_1)_4 C F_3$$
 $C F_3$ 
 $C F_3$ 

 $CH_2$ =CH- $CO_2$ - $CH_2$ - $(CF_2)_5CF_2H$ 

 $CH_2$ =CH- $CO_2$ - $(CH_2)_6(CF_2)_3CF_3$  and

$$OH$$

$$CF_{1}$$

$$CH_{2}=CH-CO_{2}-CH_{2}-CH-CH_{2}(CF_{2})_{4}CF$$

$$CF_{3}$$

## 15. (Canceled)

16. (Currently Amended) The pellicle as recited in claim [[4]] 24, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

 $CH_2=CH-CO_2-CH_2-(CF_2)_2-CH_2-CO_2-CH=CH_2$   $CH_2=CH-CO_2-CH_2-(CF_2)_4-CH_2-CO_2-CH=CH_2$   $CH_2=CH-CO_2-CH_2-(CF_2)_6-CH_2-CO_2-CH=CH_2$   $CH_2=CH-CO_2-CH_2-(CF_2)_8-CH_2-CO_2-CH=CH_2$   $CH_2=CH-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2 \ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)$   $CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2 \ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)$   $CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2 \ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)$   $CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2 \ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)$   $CH_2=CH-CO_2-CH(OH)-(CF_2)_4-(CH)_n-CO_2-CH=CH_2 \ (n \ is \ 1 \ to \ 3).$ 

17. (Currently Amended) The method as recited in claim [[5]] <u>25</u>, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

$$CH_2=CH-CO_2-CH_2-(CF_2)_2-CH_2-CO_2-CH=CH_2\\ CH_2=CH-CO_2-CH_2-(CF_2)_4-CH_2-CO_2-CH=CH_2\\ CH_2=CH-CO_2-CH_2-(CF_2)_6-CH_2-CO_2-CH=CH_2\\ CH_2=CH-CO_2-CH_2-(CF_2)_8-CH_2-CO_2-CH=CH_2\\ CH_2=CH-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2\ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)\\ CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-CH=CH_2\ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)\\ CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2\ (n \ and \ m \ are \ respectively \ 1 \ to \ 3)\ and\\ CH_2=CH-CO_2-CH(OH)-(CF_2)_4-(CH)_n-CO_2-CH=CH_2\ (n \ is \ 1 \ to \ 3).$$

18. (Canceled)

19. (Currently Amended) The pellicle as recited in claim 5 24, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_1$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$| O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

(n and m are respectively 1 to 3)

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C (C H_3) = C H_2$$

(n and m are respectively 1 to 3).

20. (Currently Amended) The method as recited in claim [[5]] <u>25</u>, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_3$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$| O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

(n and m are respectively 1 to 3)

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C (C H_3) = C H_2$$
(n and m are respectively 1 to 3).

21. (Canceled)

- 22. (Currently Amended) The pellicle as recited in claim 4, wherein in the ultraviolet-curing fluorine-containing monomer according to general <u>formulas</u> formulas (1), (2) and (3), R<sup>1</sup> and R<sup>4</sup>-each <u>represents</u> represent a methyl group.
- 23. (Currently Amended) The pellicle as recited in claim 5, wherein in the ultraviolet-curing fluorine-containing monomer according to general <u>formula</u> formulas (1), (2) and (3), R<sup>1</sup> and R<sup>4</sup>-each <u>represents</u> represent a methyl group.
- 24. (New) A pellicle comprising a pellicle film made of a fluorine-containing polymer and a pellicle frame for supporting the pellicle film, wherein

the pellicle film is adhered to the pellicle frame through an adhesive layer comprising a fluorine-containing polymer and a substance resulting from curing of an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer comprises at least one kind of monomer selected from the group consisting of general formulas (2) and (3):

$$C H_z = C - C O_z - (C R^z H)_m - R f - (C R^3 H)_n - C O_z - C = C H_z$$

$$I \qquad \qquad I \qquad \qquad I \qquad \qquad I \qquad \qquad R^4 \quad \cdots (2)$$

wherein R<sup>1</sup> and R<sup>4</sup> each independently represent hydrogen or a methyl group, R<sup>2</sup> and R<sup>3</sup> each independently represent hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and m and n each are an integer of 1 to 8, and the fluorine-containing polymer of said adhesive is a copolymer comprising structural

units represented by the following formulas (4), (5), and (6):

- $-C_2F_4$  (4)
- $-C_3H_6$  (5)
- $-C_2H_2F_2-$  (6).

25. (New) A method for producing a pellicle including a pellicle film made of a fluorine-containing polymer and a pellicle frame for supporting the pellicle film, comprising

adhering the pellicle film to the pellicle frame through an adhesive comprising a fluorine-containing polymer and an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer comprises at least one kind of monomer selected from the group consisting of general formulas (2) and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_m - C H - (C R^3 H)_n - R f \cdots (3)$$

$$I \qquad \qquad I \qquad \qquad I \qquad \qquad O_2 C - C R^4 = C H_2$$

wherein  $R^1$  and  $R^4$  each independently represent hydrogen or a methyl group,  $R^2$  and  $R^3$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  and  $R^4$  each independently represent hydrogen or a methyl group,  $R^4$  and  $R^4$  each independently represent hydrogen or a methyl group,  $R^4$  and  $R^4$  each independently represent hydrogen or a methyl group,  $R^4$  and  $R^4$  each independently represent hydrogen or a methyl group,  $R^4$  and  $R^4$  each independently represent hydrogen or a methyl group,  $R^4$  and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  each independently represent hydrogen or a hydroxyl group,  $R^4$  is a fluorine-containing group, and  $R^4$  each independently group,  $R^4$  is a fluorine-containing group,  $R^4$  is a fluorine-containing group, and  $R^4$  each independently group,  $R^4$  is a fluorine-containing group,  $R^4$ 

- $-C_2F_4$  (4)
- $-C_3H_6$  (5)
- $-C_2H_2F_2-$  (6).
- 26. (New) The pellicle as recited in claim 24, wherein the ratio between the fluorine-containing polymer of said adhesive and the ultraviolet-curing fluorine-containing monomer contained in the adhesive layer is fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 17.0:4.3 to 12.0:36.0 (weight ratio) in the case of fluorine-containing monomer represented by general formula (2); and fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 3 (weight ratio) in the case of diacrylate fluorine-containing monomer represented by general formula (3).
- 27. (New) The method as recited in claim 25, wherein the ratio between the fluorine-containing polymer of said adhesive and the ultraviolet-curing fluorine-containing monomer contained in the adhesive layer is fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 17.0:4.3 to 12.0:36.0 (weight ratio) in the case of fluorine-containing monomer represented by general formula (2); and fluorine-containing polymer:ultraviolet-curing fluorine-containing monomer = 1:0.25 to 3 (weight ratio) in the case of diacrylate fluorine-containing monomer represented by general formula (3).
- 28. (New) The pellicle as recited in claim 24, wherein in the ultraviolet-curing fluorine-containing monomer according to general formulas (2) and (3), R<sup>1</sup> and R<sup>4</sup> each represent a methyl group.

29. (New) The pellicle as recited in claim 25, wherein in the ultraviolet-curing fluorine-containing monomer according to general formulas (2) and (3),  $R^1$  and  $R^4$  each represent a methyl group.